

U.S. Patent Application No.: 09/752,227

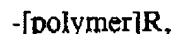
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AMENDMENTS TO THE CLAIMS

1-56. (Cancelled)

57. (Previously presented) A modified pigment product comprising a pigment having attached at least one aromatic or alkyl group X, wherein X is substituted with at least one group comprising the formula:



wherein "polymer" represents a polycarbonate group, a polyether group, a polyimide group, a polyurethane group, poly(vinyl alcohol), or combinations thereof, optionally having at least one -X' group, wherein X' comprises at least one aromatic group or at least one alkyl group, and each X and X' can be the same or different and are directly attached to the pigment, R represents hydrogen, a bond, a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aromatic group, and the total amount of monomer groups of "polymer" is not greater than about 500 monomer repeating units, and when R represents a bond, R optionally bonds to said pigment.

58. (Previously presented) The modified pigment product of claim 57, wherein at least one X' group is attached to said pigment.

59. (Previously presented) The modified pigment product of claim 57, wherein X is an aromatic group.

60. (Previously presented) The modified pigment product of claim 57, wherein X is further substituted with at least one functional group.

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61. (Previously presented) The modified pigment product of claim 60, wherein said functional group is a carboxylic group or a sulfonate group.

62. (Previously presented) The modified pigment product of claim 57, further comprising a chemical group attached to said pigment.

63. (Previously presented) The modified pigment product of claim 62, wherein the chemical group comprises a carboxylic acid group or salts thereof.

64. (Previously presented) The modified pigment product of claim 62, wherein the chemical group is a carboxyphenyl group or salts thereof.

65. (Currently amended) An ink composition comprising a) at least one liquid vehicle; and b) at least one modified pigment product comprising a pigment having attached at least one aromatic or alkyl group X, wherein X is substituted with at least one group comprising the formula:



wherein "polymer" represents a polycarbonate group, a polyether group, a polyimide group, a polyurethane group, ~~a polyamide group, a polyester group,~~ poly(vinyl alcohol), or combinations thereof, optionally having at least one -X' group, wherein X' comprises at least one aromatic group or at least one alkyl group, and each X and X' can be the same or different and are directly attached to the pigment, R represents hydrogen, a bond, a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aromatic group, and the total amount of monomer groups of "polymer" is not greater than about 500 monomer repeating units, and when R represents a bond, R optionally bonds to said pigment.

66. (Previously presented) The ink composition of claim 65, wherein said ink composition is an inkjet ink composition.

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67. (Previously presented) The ink composition of claim 65, wherein X is an aromatic group.

68-69. (Cancelled)

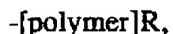
70. (Previously presented) The ink composition of claim 65, further comprising a chemical group attached to said pigment.

71. (Previously presented) The ink composition of claim 70, wherein the chemical group comprises a carboxylic acid group, or salts thereof.

72. (Previously presented) The ink composition of claim 70, wherein the chemical group is a carboxyphenyl group, or salts thereof.

73-79. (Cancelled)

80. (Currently amended) An ink composition comprising a) at least one liquid vehicle; b) at least one modified pigment product comprising a pigment having attached at least one aromatic or alkyl group X, wherein X is substituted with at least one group comprising the formula:



wherein "polymer" represents a polycarbonate group, a polyether group, a polyimide group, a polyurethane group, ~~a polyamide group, a polyester group,~~ poly(vinyl alcohol), or combinations thereof, optionally having at least one -X' group, wherein X' comprises at least one aromatic group or at least one alkyl group, and each X and X' can be the same or different and are directly attached to the pigment, R represents hydrogen, a bond, a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aromatic group, and the total

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amount of monomer groups of "polymer" is not greater than about 500 monomer repeating units, and when R represents a bond, R optionally bonds to said pigment-, and c) at least one additional polymer selected from the group consisting of: a polyester, a polyester-melamine, a styrenated acrylate, a styrene-acrylic acid copolymer, a styrene-acrylic acid-alkyl acrylate copolymer, a styrene-maleic acid copolymer, a styrene-maleic acid-alkyl acrylate copolymer, a styrene-methacrylic acid copolymer, a styrene-methacrylic acid-alkyl acrylate copolymer, a styrene-maleic half ester copolymer, a vinyl naphthalene-acrylic acid copolymer, a vinyl naphthalene-maleic acid copolymer, and salts thereof.

81. (Cancelled)

82. (Previously presented) The ink composition of claim 80, wherein the additional polymer is a styrenated acrylate.

83. (Cancelled)

84. (Previously presented) The ink composition of claim 80, wherein the ink composition is an inkjet ink composition.

85. (Previously presented) The ink composition of claim 84, wherein the liquid vehicle is an aqueous vehicle.

86. (Previously presented) An ink composition comprising a) at least one liquid vehicle; and b) at least one modified pigment product comprising a pigment having attached at least one aromatic or alkyl group X, wherein X is substituted with at least one group comprising the formula:



wherein "polymer" represents repeating monomer groups or multiple monomer groups or both

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having at least one $-X'$ group, wherein each X and X' are the same and are attached to the pigment, R represents hydrogen, a bond, a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aromatic group, and the total amount of monomer groups of "polymer" is not greater than about 500 monomer repeating units, and when R represents a bond, R optionally bonds to said pigment.